## WHAT IS CLAIMED IS:

1	1. An isolated polynucleotide which specifically modulates transcription		
2	in a plant suspensor cell and/or basal region of a plant embryo, the polynucleotide comprising		
3	a promoter control element comprising,		
4	(a) a nucleotide sequence having at least 50% sequence identity to		
5	nucleotides 3329 to 3475 of SEQ ID NO:1; or		
6	(b) a nucleotide sequence which hybridizes to nucleotides 3329 to 3475 of		
7	SEQ ID NO:1 under a condition establishing a T <sub>m</sub> minus 20°C.		
1	2. The isolated polynucleotide of claim 1, comprising		
. 2	(a) a nucleotide sequence having at least 50% sequence identity to SEQ ID		
<u>,</u>	NO:1; or		
14 15	(b) a nucleotide sequence which hybridizes to SEQ ID NO:1 under a		
<u> </u>	condition establishing a T <sub>m</sub> minus 20°C.		
:: ## :: ##			
	3. The isolated polynucleotide of claim 1, wherein the polynucleotide		
-2	comprises nucleotides 3324 to 3580 of SEQ ID NO:1.		
#  . ≟.			
1	4. An expression cassette comprising a promoter sequence, the promoter		
12 13	sequence comprising,		
3	i. a nucleotide sequence having at least 50% sequence identity to		
4	nucleotides 3329 to 3475 of SEQ D NO:1; and		
5	ii. a promoter polynucleotide with at least basal promoter activity, which		
. 6	promoter polynucleotide is operably linked to a heterologous polynucleotide,		
7	wherein when the expression cassette is inserted into a plant, the heterologous		
8	polynucleotide is specifically expressed in a suspensor cell and/or basal region of a plant		
9	embryo.		
1	5. The expression cassette of claim 4, wherein the nucleotide sequence		
2	comprises nucleotides/3329 to 3475 of SEQ ID NO:1		
1	6. An isolated polynucleotide which specifically modulates transcription		
2	in a plant suspensor cell and/or basal region of a plant embryo, the polynucleotide comprising		
3	a promoter comprising,		

4	(a)	a nucleotide sequence having at least 50% sequence identity to SEQ ID
5	NO:1 or nucleotides	1 to 3154 of SEQ ID NO:6;
6	(b)	a nucleotide sequence which hybridizes to SEQ/ID NO:1 or
7	nucleotides 1 to 3154	of SEQ ID NO:6 under a condition establishing a T <sub>m</sub> minus 20°C.
	_	
1	7.	The isolated polynucleotide of claim 6, wherein the promoter
2	comprises SEQ ID N	0:1.
1	8.	The isolated polynucleotide of claim 6, wherein the promoter
2	comprises nucleotide	s 1 to 3154 of SEQ ID NO:6.
	_	
1	9.	The isolated polynucleotide of claim 6, further comprising a G564
2	polynucleotide opera	bly linked to the promoter.
() ()1	10.	The isolated polynucleotide of claim 9, wherein the isolated
1 2	polynucleotide comp	_ /
1 14 22 15 03		
.0 <sub>1</sub> 2	11.	The isolated polynucleotide of claim 6, further comprising a G541
.2	polynucleotide opera	bly linked to the promoter.
u  .44	12	The isolated malumus lectide of claim 0, whorein the isolated
<u>ו</u>	12.	The isolated polynucleotide of claim 9, wherein the isolated
[L2 [[]	polynucleotide comp	nses SEQ ID NO:0.
	13.	The isolated polynucleotide of claim 6, further comprising a
2	heterologous polynuc	cleotide operably/linked to the promoter.
1	14.	A vector comprising a promoter of claim 6 operably linked to a
2	heterologous nucleic	acid sequencé.
1	15.	The vector of claim 14, wherein the promoter is SEQ ID NO:1.
1	16.	The vector of claim 14, wherein the promoter comprises nucleotides 1
2	to 3154 of SEQ ID N	IO:6. /
1_	17	A-host cell-comprising-a-promoter-of claim-6.
	•	
1	18.	The host cell of claim 17, wherein the promoter comprises SEQ ID
2	NO:1.	

1	19.	The host cell of claim 17, wherein the promoter comprises nucleotides
2	1 to 3154 of SEQ II	) NO:6.
1	20.	The host cell of claim 17, wherein the host cell is a plant cell.
1	21.	A host cell comprising the vector of claim 1.
1	22.	A plant comprising the polynucleotide of claim 13.
1	23.	A plant of claim 22, wherein the promoter comprises SEQ ID NO:1.
1	24.	A plant of claim 22, wherein the promoter comprises nucleotides 1 to
2	3154 of SEQ ID NO	):6.
[]1 []1	25.	A plant comprising a vector of claim 14.
`# " <u>!</u> 1	26.	A method of modulating transcription in a plant suspensor cell and/or
2	basal region of a pla	nt embryo, the method comprising introducing into a plant an expression
3	cassette comprising	the promoter of claim 1.
iš	27	The state of the s
. <u>1</u>	27.	The method of claim/26, wherein the promoter comprises SEQ ID
2	NO:1.	
	28.	The method of glaim 26, wherein the promoter comprises nucleotides
2	to 3154 of SEQ ID 1	NO:6.
1	29.	The method of claim 26, wherein a G564 polynucleotide is operably
2	linked to the promot	er.
1	30.	The method of claim 26, wherein the promoter is operably linked to a
2	heterologous polynu	cleotide
1	31.	The method of claim 30, wherein the promoter is operably linked to
2	the heterologous pol	ynucleotide in an antisense orientation.
1	32.	An isolated nucleic acid comprising a polynucleotide, or complement
2	thereof, encoding a	G564 polypeptide exhibiting at least 50% sequence identity to SEQ ID
3	NO:3.	

1	33. The isolated nucleic acid of claim 32, wherein the G564 polypeptide		
2	comprises SEQ ID NO:3.		
1	34. The isolated nucleic acid of claim 32, wherein the nucleic acid furthe		
2	comprises a promoter operably linked to the polynucleotide.		
1	35. The isolated nucleic acid of claim 34, wherein the promoter is a		
2	constitutive promoter.		
1	36. The isolated nucleic acid of claim 3/4, wherein the polynucleotide is		
2	linked to the promoter in an antisense orientation.		
1	37. An isolated nucleic acid comprising a polynucleotide, or complement		
2	thereof, encoding a C541 polypeptide exhibiting at/least 50% sequence identity to SEQ ID		
3	NO:7.		
10			
	38. The isolated nucleic acid of claim 37, wherein the C541 polypeptide		
. 2	comprises SEQ ID NO:7.		
*			
;; <u>,</u> ,1	39. The isolated nucleic acid of claim 37, wherein the nucleic acid furthe		
-2	comprises a promoter operably linked to the polynucleotide.		
<b>[]</b>	40. The isolated nucleic acid of claim 39, wherein the promoter is a		
2	constitutive promoter.		
1	41. The isolated nucleic acid of claim 39, wherein the polynucleotide is		
2	linked to the promoter in an antisense orientation.		
1	42. An expression cassette comprising a promoter operably linked to a		
2	heterologous polynucleotide sequence, or a complement thereof, encoding a G564		
3	polypeptide exhibiting at least 50% sequence identity to SEQ ID NO:3.		
_			
1	43. The expression cassette of claim 42, wherein the G564 polypeptide		
2	comprises SEQ ID NO: 3.		
1	44. / The expression cassette of claim 42, wherein the G564 polynucleotid		
2	comprises nucleotides 4242 to 4901 of SEQ ID NO: 2.		



1	45.	The expression cassette of claim 42, wherein the promoter is a	
2	constitutive promoter.		
	46	The survey is a second of claim 42 wherein the nell-myelectide is	
1	46.	The expression cassette of claim 42, wherein the polynucleotide is	
2	linked to the promote	r in an antisense orientation.	
1	47.	An expression cassette comprising a promoter operably linked to a	
2	heterologous polynuc	leotide, or a complement thereof, encoding a C541 polypeptide	
3	exhibiting at least 50%	% sequence identity to SEQ ID NO:7.	
1	48.	The expression cassette of claim/47, wherein the C541 polypeptide	
2	comprises SEQ ID No	O:7.	
( <b>]1</b>	49.	The expression cassette of cyaim 47, wherein the C541 polynucleotide	
.]2 [] [] []	comprises nucleotides	s 3155 to 3552 of SEQ ID NO: 6.	
""1 (0	50.	The expression cassette of claim 47, wherein the promoter is a	
<b>.,†2</b>	constitutive promoter		
`\d	£1	The survey is a second to a falsion 47, wherein the nell-muelocide is	
ļ. d. l	51.	The expression cassette of claim 47, wherein the polynucleotide is	
-2 -1 -1 -2	linked to the promote	r in an antisense orientation.	
10	52.	A host cell comprising an exogenous nucleic acid comprising a	
13°		/-	
	polynucleotide, or complement thereof, encoding a G564 polypeptide exhibiting at least 80%		
3	sequence identity to S	SEQ ID NO.3.	
1	53.	The host cell of claim 52, wherein the nucleic acid further comprises a	
-		ked to the polynucleotide.	
2	promoter operatory in	ked to the polyhedeconde.	
1	54.	The host cell of claim 53, wherein the promoter is constitutive.	
1	55.	The host cell of claim 53, wherein the promoter is operably linked to	
2	the polynucleotide in	and antisense orientation.	
		/	
- 1	56.	A host cell comprising an exogenous nucleic acid comprising a	
2	polynucleotide, or con	mplement thereof, encoding a C541 polypeptide exhibiting at least 50%	
3	sequence identity/to SEQ ID NO:7.		

٠,٠

1	57. The host cell of claim 56, wherein the nucleic agid further comprises a		
2	promoter operably linked to the polynucleotide.		
1	58. The host cell of claim 57, wherein the promoter is constitutive.		
1	59. The host cell of claim 57, wherein the promoter is operably linked to		
2	the polynucleotide in an antisense orientation.		
1	60. A transgenic plant comprising a recombinant expression cassette, the		
2	recombinant expression cassette comprising a polynucleotide, or complement thereof,		
3	encoding a G564 polypeptide exhibiting at least 50% sequence identity to SEQ ID NO:3.		
1	61. The transgenic plant of claim 60, wherein the G564 polypeptide		
<u>2</u>	comprises SEQ ID NO:3.		
13 13 13	62. The transgenic plant of claim 60, wherein the polynucleotide		
=2	comprises nucleotides 4242 to 4901 of SEQ ID NO:2.		
(0			
1,11	63. The transgenic plant of claim 60, wherein the nucleic acid further		
2	comprises a promoter operably linked to the polynucleotide.		
, []	64. The transgenic plant of claim 63, wherein the promoter is a constitutive		
2	promoter.		
1 <u>2</u>	/ C		
1	65. The transgenic plant of claim 60, wherein the polynucleotide is linked		
2	to the promoter in an antisense orientation.		
1	66. A transgenic plant comprising a recombinant expression cassette, the		
2	recombinant expression cassette comprising a polynucleotide, or complement thereof,		
3	encoding a C541 polypeptide exhibiting at least 50% sequence identity to SEQ ID NO:7.		
1	67. The transgenic plant of claim 66, wherein the G541 polypeptide		
2	comprises SEQ ID NO.7.		
- <sub>1</sub>	68. The transgenic plant of claim 66, wherein the polynucleotide		
2	comprises nucleotides 3155 to 3552 of SEQ ID NO: 6.		

1		69.	The transgenic plant of claim 66, wherein the nucleic acid further
2	comprises a pr	romoter	operably linked to the polynucleotide.
1		70.	The transgenic plant of claim 69, wherein the promoter is a constitutive
2	promoter.		
1		71.	The transgenic plant of claim 66, wherein the polynucleotide is linked
2	to the promote		antisense orientation.
2	to the promot	or iii aii	antisonse orientation.
1		72.	An isolated polypeptide comprising an amino acid sequence at least
2	80% identical	to SEQ	Q ID NO:3.
1		73.	The isolated polypeptide of claim 72, wherein the polypeptide is SEQ
<b>1</b> 2	ID NO:3.		
12 11 2 11		74.	An isolated polypeptide comprising an amino acid sequence at least
[∐¹ ==?)	80% identical		/
(0 <sup>2</sup>	0070 Identical	to SEQ	(IB No./.
		75.	The isolated polypeptide of claim 74, wherein the polypeptide is SEQ
<u></u> 2	ID NO:7.		
, da			
11 <b>1</b> 111		76.	An antibody capable of binding the isolated polypeptide of claim 72.
		77.	An antibody capable of binding the isolated polypeptide of claim 74.
L <sub>a</sub> F			,
15	ybc1)	78.	A method of introducing an isolated polynucleotide into a host cell
<sub>2</sub> <i>C</i>	comprising:		
3			(a) providing an isolated polynucleotide according to claim 1; and
4			(b) contacting the polynucleotide with the host cell under
5	conditions tha	ıt permi	t insertion of the polynacleotide into the host cell.
1		79.	A method of detecting a polynucleotide in a sample, comprising
2		(a)	providing an isolated polynucleotide according to claim 1;
3		_(b)	contacting the isolated polynucleotide with a sample under conditions
4			arison of the sequence of the isolated polynucleotide with the sequence
5	of DNA in the	sample	<i>'</i>
6		(c)	analyzing the result of the comparison.
			1 -16
			7

- 4
- 1 80. The method of claim 1/9, wherein the isolated polynucleotide and the
- 2 sample are contacted under conditions which permit the formation of a duplex between
- 3 complementary nucleic acid sequences.

addc2